

Summary of Technical Documentation December 2003 Progress Report

The following describes the four folders located on the included CD (or contained within the attached ZIP file if you are receiving this by email):

- Folder 1 contains the Nashville MPO detailed emission reduction estimates. This comprehensive document was prepared by the University of Tennessee Department of Civil and Environmental Engineering (UT). It contains background data, assumptions, and calculation details for all the “potential control measures” as they apply to the Nashville MPO/EAC. This is the basis for all control measure emission reduction estimates.
- Folder 2 contains the UAM-ready emission reduction estimates as they apply to all counties in all remaining EACs. For EACs other than Nashville, this was accomplished by using county-specific population and DVMT surrogate parameters to ratio the detailed Davidson County results discussed in the report contained in Folder 1. Please note that in these Excel spreadsheets each control measure is listed by UAM source category. If a control measure contains a zero value, then that control measure was not considered/evaluated for that particular county. The control measure reductions listed in these files are the latest that have been evaluated through UAM modeling, and as such are considered the most current available. Also, note that each EAC was asked to take a long, hard look at the potential reduction estimates provided in the UT report. In some cases it was decided to assume a more conservative, less “optimistic” reduction. As such, values in the spreadsheet may differ from that provided in UT’s draft report.
- Folder 3 contains a detailed report prepared by UT that estimates DVMT, and NOX and VOC emissions for the period 1999-2030. This comprehensive report is the basis for mobile source emission estimates for the Arkansas Tennessee Mississippi Ozone Study (ATMOS) UAM model runs. It contains the details of developing a linear best-fit to the Tennessee VMT data for the period 1990-1999, followed by a linear extrapolation of the best-fit line for future years.
- Folder 4 contains the Power Point presentation provided by our UAM modeling consultant SAI at the 18 DEC 2003 ATMOS meeting held in Nashville. It provides the latest information available regarding EAC modeling strategy and results, as well as the next planned steps in this process. It also contains the results of utilizing DVMT derived from only the last five years (1998-2002) of the linear best-fit curve discussed in the report contained in Folder 3. See slides 6-15 for details of this issue.